

THAT WHICH IS CLAIMED:

1. A relocatable plant for citrus juice extraction, said plant comprising:
 - 5 a handling trailer having a wheeled support platform carrying thereon a fruit receiving hopper, a fruit washer, a sorting conveyor table, and a discharge conveyor;
 - 10 a juicing trailer having a wheeled support platform carrying thereon a feed conveyor positioned to receive fruit from said discharge conveyor, a plurality of juice extractors having fruit reamers and fed by said feed conveyor, a peel conveyor positioned to convey fruit peels from said plurality of extractors to a peel discharge chute, a refrigerated surge tank downstream from said plurality of extractors to receive extracted juice, and a first pump in fluid connection with said surge tank;
 - 15 a chilling trailer having a wheeled support platform carrying thereon a chiller comprising a plurality of refrigerated pipes in fluid connection with said first pump for chilling juice to at least a temperature effective for stabilizing the juice;
 - 20 a tank trailer having a wheeled support platform carrying thereon a juice storage tank fluidly connected downstream from said chiller for receiving chilled juice therefrom, and a second pump having a juice transfer outlet fluidly connected to said storage tank for transferring stored juice to a transport tanker;
 - 25 a generator trailer having a wheeled support platform carrying thereon a generator comprising an internal combustion engine and fuel supply therefor, said generator operably connected to provide power for said relocatable plant;
- at least one walkway platform detachably positioned along an external periphery of at least one trailer selected from said handling,

juicing, chilling, tanker, and generator trailers to support movement of personnel thereon; and

 a plurality of entryways adjacent said plurality of walkways for ingress and egress of personnel.

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2. The relocatable plant of claim 1, wherein said handling, juicing, chilling, and tanker trailers each comprises a forward end and a rearward end spaced apart therefrom, and each two of said trailers are positioned so as to allow a connection therebetween along their rearward ends when said relocatable 10 plant is in operation.

3. The relocatable plant of claim 1, wherein at least said handling, juicing, and tanker trailers is each fully enclosed by a plurality of external walls and a roof.

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4. The relocatable plant of claim 1, wherein said handling trailer and said juicing trailer each further comprises at least one ventilation opening along an external wall or roof.

20 5. The relocatable plant of claim 1, wherein each said trailer further comprises a tractor truck connected thereto.

25 6. The relocatable plant of claim 1, further comprising a clean-in-place apparatus having an inlet, at least one tank for cleaning fluid and a third pump, said pump fluidly connecting said at least one tank with a plurality of pipes each having at least one nozzle positioned to discharge the cleaning fluids on predetermined plant equipment.

7. The relocatable plant of claim (above), wherein at least one nozzle is manually operable.

8. The relocatable plant of claim (two above), wherein said clean-in-place 5 apparatus further comprises a central controller connected to operate said apparatus.

9. The relocatable plant of claim (three above), wherein said at least one tank is positioned in said tanker trailer.

10. The relocatable plant of claim (four above), in combination with a tanker truck fluidly connected with said at least one tank.

11. The relocatable plant of claim 1, further comprising a plurality of 15 substantially weatherproof covers positioned to provide weather protection between at least two of said trailers.

12. The relocatable plant of claim 1, further comprising a laboratory positioned in a trailer selected from said handling trailer, juicing trailer, chilling 20 trailer, and tanker trailer.

13. The relocatable plant of claim 1, further comprising a laboratory positioned in said juicing trailer.

25 14. The relocatable plant of claim 1, wherein each said trailer optionally includes a mechanical ventilation apparatus effective for exchanging the air in the trailer a predetermined number of times per hour.

15. The relocatable plant of claim (above), wherein said mechanical ventilation apparatus comprises at least one filter effective in reducing dust in the air.

5 16. The relocatable plant of claim 1, wherein each said trailer comprises a controller operably connected to control equipment positioned in said trailer.

17. The relocatable plant of claim 1, in combination with a transport truck positioned to receive peels from said peel discharge chute.

10 18. The relocatable plant of claim 1, in combination with a tanker truck positioned in fluid connection with said second pump for transporting juice to away from said plant for further processing or packaging.

15 19. The relocatable plant of claim 1, in combination with a goat vehicle unloading citrus fruit into said receiving hopper.

20 20. The relocatable plant of claim 1, in combination with a citrus fruit grove having fruit ready for harvesting and adjacent which grove said relocatable plant is stationed.

25 21. The relocatable plant of claim 1, wherein the fluid connection distance between each of said juicing, chilling, and tank trailers is no more than about forty feet.

22. A method of obtaining fresh citrus juice on a commercial scale, the method comprising stationing the relocatable plant of claim 1 adjacent a citrus grove having fruit ready for harvest, and harvesting and processing citrus fruit

through the plant at a rate sufficient to produce at least 500 gallons of juice per hour of operation.

23. The method of claim 22, wherein processing continues until harvesting
5 the grove is completed.

24. The method of claim 22, wherein citrus fruit harvested is extracted into
juice within 4 hours of harvest.

10 25. The method of claim 22, wherein adjacent consists of stationing on-site
at the grove.

26. A method of extracting citrus fruit juice, the method comprising:
stationing on site at a citrus grove having citrus fruit about ready
15 for harvest a handling trailer having a wheeled support platform
carrying thereon a fruit receiving hopper, a fruit washer, a sorting
conveyor table, and a discharge conveyor;

stationing adjoining the handling trailer a juicing trailer having a
wheeled support platform carrying thereon a feed conveyor positioned
20 to receive fruit from said discharge conveyor, a plurality of juice
extractors having fruit reamers and fed by said feed conveyor, a peel
conveyor positioned to convey fruit peels from said plurality of
extractors to a peel discharge chute, a refrigerated surge tank
downstream from said plurality of extractors to receive extracted juice,
25 and a first pump in fluid connection with said surge tank;

stationing a chilling trailer adjacent said juicing trailer, the
chilling trailer having a wheeled support platform carrying thereon a
chiller comprising a plurality of refrigerated pipes in fluid connection

with said first pump for chilling juice to at least a temperature effective for stabilizing the juice;

stationing adjacent said chilling trailer a tank trailer having a
wheeled support platform carrying thereon a juice storage tank fluidly
connected to said chiller for receiving chilled juice therefrom, said tank
trailer including a second pump having a juice transfer outlet fluidly
connected to said storage tank for transferring stored juice out of the
storage tank;

10 operably connecting a generator trailer having a wheeled support platform carrying thereon a generator comprising an internal combustion engine and fuel supply therefor, to provide power for said relocatable plant;

positioning at least one walkway platform along an external periphery of at least one trailer selected from said handling, juicing, chilling, tanker, and generator trailers to support movement of personnel thereon;

harvesting citrus fruit from the grove and loading harvested citrus fruit into the receiving hopper; and energizing the relocatable plant to extract, chill, and store juice from the citrus fruit.

27. A method of obtaining fresh citrus juice on a commercial scale, the
method comprising stationing a relocatable plant adjacent a citrus grove
having fruit ready for harvest, and harvesting and processing citrus fruit
25 through the plant at a rate sufficient to produce at least 500 gallons of juice
per hour of operation.

28. The method of claim 27, wherein processing continues until harvesting the grove is completed.

29. The method of claim 27, wherein citrus fruit harvested is extracted into juice within 4 hours of harvest.
30. The method of claim 27, wherein adjacent consists of stationing on-site
5 at the grove.